## AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

(Currently Amended) A virtual oven for stress testing a plurality of 1. modules, comprising:

a two or more logical group groups of modules loaded into an environmental stress screening room, wherein an environmental stress parameter of the environmental stress screening room changes over time;

a-two or more test equipments, each test equipment operatively connected to the modules of said a corresponding logical group, said test equipment generating a test signal and capable of performing an active test of at least one of the modules of said logical group at a time; and

a controller operatively connected to said test equipment equipments and to said logical group groups of modules;

said controller receiving results of the active test performed by said test equipmentequipments.

(Currently Amended) The virtual oven for stress testing a plurality of 2. modules according to claim 1, further comprising:

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a switch interposed between said each logical group of modules and said

the corresponding test equipment, said switch also having an operative

connection with said controller;

said controller periodically controlling said switch to supply the test signal

from one of the modules of said logical group at a time to said test equipment

such that said test equipment is time-shared between the modules of said

logical group.

(Original) The virtual oven for stress testing a plurality of modules

according to claim 2,

said controller receiving passive test measurement values from at least

some of the modules of said logical group;

said controller controlling said switch and said test equipment to perform

the active testing of the modules on a time share basis wherein the active test

is performed on a first one of the modules and, upon expiration of a first test

period, said controller controls said switch and said test equipment to perform

the active test on a second one of the modules.

(Original) The virtual oven for stress testing a plurality of modules

according to claim 1, further comprising:

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a memory device operatively connected to said controller, said memory

device storing a database including the results of the active test.

5. (Original) The virtual oven for stress testing a plurality of modules

according to claim 3, further comprising:

a memory device operatively connected to said controller, said memory

device storing a database including the results of the active test and the

passive test measurement values.

6. (Original) The virtual oven for stress testing a plurality of modules

according to claim 2, further comprising:

a second switch operatively connected to said test equipment and to said

logical group of modules,

said controller periodically controlling said switch and said second

switch to supply the test signal to and from said test equipment and one of the

modules of said logical group at a time such that said test equipment is

time-shared between the modules of said logical group.

7. (Original) The virtual oven for stress testing a plurality of modules

according to claim 1, further comprising:

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a signal splitter operatively connected to said test equipment and to said

logical group of modules, said signal splitter splitting the test signal and

supplying the test signal to said logical group of modules.

8. (Currently Amended) The virtual oven for stress testing a plurality of

modules according to claim 1,

wherein the modules of said-each logical group are optical communication

modules and said the corresponding test equipment performs an active optical

test of the modules.

9. (Original) The virtual oven for stress testing a plurality of modules

according to claim 8,

wherein the active optical test is a bit error rate test.

10. (Currently Amended) The virtual oven for stress testing a plurality of

modules according to claim 1,

said each test equipment performing a series of tests of the corresponding

modules.

11. (Currently Amended) The virtual oven for stress testing a plurality of

modules according to claim 1,

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said controller sending a command to at least one module of said-the corresponding logical group to place that module in a desired operational state.

12. (Currently Amended) The virtual oven for stress testing a plurality of modules according to claim 1, further comprising:

a display unit operatively connected to said eontrollers;

said controller generating displays of the active test results and supplying the generated displays to said display unit; and

said display unit displaying the generated displays.

13. (Original) The virtual oven for stress testing a plurality of modules according to claim 12,

said controller receiving passive test measurement values from at least one of the modules of said logical group;

said controller analyzing the passive test measurement values and the active test results; and

said display unit displaying results of said controller's analysis.

14. (Currently Amended) The virtual oven for stress testing a plurality of modules according to claim 1, further comprising:

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a network operatively connecting said each test equipment with said the corresponding controller, said and memory device, and each of the modules of said the corresponding logical group;

said controller controlling said network to route the test signal between one of the modules and said test equipment on a time-shared basis.

15. (Currently Amended) The virtual oven for stress testing a plurality of modules according to claim 1, further comprising, for each logical group:

a plurality of said test equipment each of which generates a respective test signal and is capable of performing an active test of one of the modules at a time;

a network operatively connecting said plurality of test equipment with said controller, said memory device, and each of the modules of said logical group;

said controller controlling said network to route the test signals between said test equipment and respective ones of said modules on a time-shared basis.

16. (Original) The virtual oven for stress testing a plurality of modules according to claim 1, further comprising:

a plurality of logical groups of modules;

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a plurality of said test equipment each of said test equipment being associated with one of said logical groups, generating a respective test signal and capable of performing an active test of one of the modules in the associated logical group at a time;

a network operatively connecting said plurality of test equipment with said controller, said memory device, and each of said logical groups;

said controller controlling said network to route the test signals between each of said test equipment and one of the modules of said logical groups,

wherein within each of said associated test equipment and said logical groups, said controller controls said network to route the test signals between said test equipment and a respective one of the modules in the associated logical group on a time-shared basis.

17. (Currently Amended) A system including a plurality of virtual ovens according to elaim 1 claim 4, further comprising:

a network operatively connecting said virtual ovens and said memory device.

18. (Currently Amended) A system including a plurality of virtual ovens according to claim 1, further comprising:

an optical noise source generating an optical noise signal;

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a coupler operatively connected to said optical noise source and to said each test equipment and coupling the test signal and the optical noise signal to generate a noise loaded signal;

a variable optical attenuator operative coupled between said noise source and said coupler, said variable optical attenuator having a control input from said controller;

said controller adjusting an optical signal-to-noise ratio of the noise-loaded signal by controlling said variable optical attenuator;

wherein the noise-loaded signal is supplied to the logical group of modules corresponding to the test equipment.

19. (Original) A system including a plurality of virtual ovens according to claim 18, further comprising:

a second variable optical attenuator operatively coupled between said coupler and said logical group of modules;

an optical spectrum analyzer operatively coupled to said coupler and receiving the noise-loaded signal; said optical spectrum analyzer outputting a measurement value to said controller;

said controller utilizing the measurement value from said optical spectrum analyzer to control said first and/or second variable optical attenuators.

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20. (Currently Amended) A method of performing stress testing of a plurality of modules, comprising:

designating a two or more logical group groups of modules in an environmental stress screening room, wherein an environmental stress parameter of the environmental stress screening room changes over time;

generating a test signal with each of two or more test equipments for a corresponding one of the logical groups;

supplying the test signal to at least one of the modules of the each logical group to subject the at least one module to an active test thereof; and receiving results of the active test from the at least one of the modules of the each logical group with a the corresponding test equipment.

21. (Currently Amended) The method of performing stress testing of a plurality of modules according to claim 20, further comprising:

performing a series of tests of the logical group modules on a time-share basis with the test equipment.

22. (Currently Amended) The method of performing stress testing of a plurality of modules according to claim 21, further comprising:

receiving passive test measurement values from at least one of the modules

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of the logical group.

23. (Currently Amended) The method of performing stress testing of a plurality of modules according to claim 22, further comprising:

storing results of the active test and the passive test measurement values for each of the modules in a database.

24. (Currently Amended) The method of performing stress testing of a plurality of modules according to claim 20, further comprising:

splitting the test signal and supplying the test signal to the logical group of modules.

25. (Currently Amended) The method of performing stress testing of a plurality of modules according to claim 20, further comprising:

periodically supplying the test signal from one of the modules to the test equipment such that the test equipment is time-shared between the modules of the logical 20 group.

26. (Currently Amended) The method of performing stress testing of a plurality of modules according to claim 20,

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wherein the modules are optical communication modules and the active test is an active optical test of the modules.

27. (Currently Amended) The method of performing stress testing of a plurality of modules according to claim 26,

wherein the active optical test is a bit error rate test.

28. (Currently Amended) The method of performing stress testing of a plurality of modules according to claim 20, further comprising:

sending a command to at least one module of the logical group to place that module in a desired operational state.

29. (Currently Amended) The method of performing stress testing of a plurality of modules according to claim 20, further comprising:

displaying the active test results.

30. (Currently Amended) The method of performing stress testing of a plurality of modules according to claim 20, further comprising:

receiving passive test measurement values from at least one of the modules of the logical group;

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analyzing the passive test measurement values and the active test results; and

displaying results of said analyzing step.

31. (Currently Amended) The method of performing stress testing of a plurality of modules according to claim 20, further comprising:

networking the test equipment, the database and each of the modules of the logical group;

controlling the network to route the test signal between the test equipment and one of the modules of the logical group.

32. (Currently Amended) The method of performing stress testing of a plurality of modules according to claim 20,

said designating step designating a plurality of logical groups of modules in the environmental stress screening room;

the method further comprising:

networking a plurality of test equipment and each of the logical groups; associating each of the test equipment with one of the logical groups; and controlling the network to route the test signals between each of the test equipment and an associated one the logical groups.

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33. (Original) A method of asynchronously conducting stress testing on a plurality of groups modules according to claim 20, wherein the logical group of modules is a first logical group of modules and the test equipment is a first test equipment, the method comprising:

designating a second logical group of modules in the environmental stress screening room;

asynchronously initiating testing of the first and second logical groups of modules;

testing the first logical group of modules with the first test equipment; and testing the second logical group of modules with a second test equipment, wherein each of said testing steps respectively includes said generating step, said supplying step, and said receiving step.

34. (Currently Amended) The method of performing stress testing on a plurality of modules according to claim 20,

adding optical noise to the test signal to generate a noise-loaded signal; adjusting an optical signal-to-noise ratio (OSNR) of the noise-loaded signal;

supplying the OSNR-adjusted, noise-loaded signal to the logical group of modules.

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35. (Currently Amended) The method of performing stress testing on a plurality of modules according to claim 34,

adjusting a power level of the OSNR-adjusted, noise loaded signal before it is supplied to the logical group of modules.